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ABSTRACT

- The present invention provides a linear motor, which can improve motor efficiency and which can be manufactured by simplified procedure. The linear motor of the present invention comprises a movable unit 21 in cylindrical shape and
- 5 having the central axis at the intersection of X-axis and Y-axis, an inner yoke 22 arranged on inner side of the movable unit 21 with a given spacing in radial direction of the movable unit 21 and being formed by laminating a multiple of thin plates each in approximately rectangular shape and having high magnetic permeability arranged in direction of X-axis, an outer yoke 24 arranged on outer side of the movable unit
- 10 with a given spacing in radial direction of the movable unit 21 and being formed by laminating a multiple of thin plates 25 each in approximately rectangular shape arranged in the same direction as the thin plates 23 of the inner yoke 22, and a pair of permanent magnets 33 and 34 magnetized in a direction from the inner yoke 22 to the outer yoke 24.
- 15 Therefore, the thrust force of the linear motor is not turned to unstable, and motor efficiency can be improved, and this facilitates the manufacture of the linear motor.